

From navy.radio at gmail.com Mon Mar 6 13:12:23 2023
From: navy.radio at gmail.com (Nick England)
Date: Mon, 6 Mar 2023 08:12:23 -0500
Subject: [BoatAnchors] Hamfest photos - Arkansas River Valley
Message-ID:
<CAB55hNdgkPd+q=HtMybqhZVNBjqkR_SzFBJcDGucsSvJktXVmw@mail.gmail.com>

Hamfest photos - Arkansas River Valley
photos by Jim Whartenby show some interesting gear
Now posted at
<https://photos.app.goo.gl/e3HPMKwb1Gs7EVpV7>

From navy.radio at gmail.com Sat Mar 11 23:43:14 2023
From: navy.radio at gmail.com (Nick England)
Date: Sat, 11 Mar 2023 18:43:14 -0500
Subject: [BoatAnchors] Charlotte NC h
Message-ID:
<CAB55hNcAbrghF_vwKUjXA8C3_p_9_Uw4invetxT=2_LyqDxBUw@mail.gmail.com>

Charlotte NC hamfest photos
- a good time was had by all
<https://photos.app.goo.gl/fzRrezQBqFFS5yNM8>

Nick England K4NYW
www.navy-radio.com

From jmac6235 at yahoo.com Sun Mar 12 01:10:59 2023
From: jmac6235 at yahoo.com (J.D. MacAulay, WQ8U)
Date: Sun, 12 Mar 2023 01:10:59 +0000 (UTC)
Subject: [BoatAnchors] Charlotte NC h
In-Reply-To:
<CAB55hNcAbrghF_vwKUjXA8C3_p_9_Uw4invetxT=2_LyqDxBUw@mail.gmail.com>
References:
<CAB55hNcAbrghF_vwKUjXA8C3_p_9_Uw4invetxT=2_LyqDxBUw@mail.gmail.com>
Message-ID: <8909816.1461638.1678583459286@mail.yahoo.com>

Very nice!Nick,Thank you so much for the wonderful view of Boatanchors
etc. ?wish I could see them in person but your photos really bring
pleasure.Thanks and 73MacWQ8UHillsborough?

Sent from Yahoo Mail for iPhone

On Saturday, March 11, 2023, 6:43 PM, Nick England via BoatAnchors
<boatanchors at lists.theporch.com> wrote:

Charlotte NC hamfest photos

- a good time was had by all
<https://photos.app.goo.gl/fzRrezQBqFFS5yNM8>

Nick England K4NYW
www.navy-radio.com

BoatAnchors mailing list
BoatAnchors at lists.theporch.com
<https://lists.theporch.com/mailman/listinfo/boatanchors>

From jay at kk5im.com Sun Mar 19 10:36:35 2023
From: jay at kk5im.com (jay miller)
Date: Sun, 19 Mar 2023 05:36:35 -0500
Subject: [BoatAnchors] Mallory Vibropack
Message-ID: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>

I recently acquired a pair of complete BC-669-Ds (transmitter/receiver units, PE-110-Ds power supplies and PE-108E gasoline generators).

I have one of the PE-110-D power supplies up and running except for the Mallory Vibropack VPG-369. The pack uses a 12v, 5 pin, synchronous vibrator (Mallory G-543-C). The Vibropack supplies B+ to the receiver plates when in standby (from the generator battery).

Anyone have any data on either the Vibropack and/or the vibrator itself.

Putting 12vdc into the pack and nothing coming out.. no noise at all from the vibrator (tried both of them from the two power units).

Thanks!

--

Jay H. Miller
Trinity Graphics Systems
Crawford, Texas
www.qrz.com/db/KK5IM
My YouTube Channel:
<https://www.youtube.com/@Radiotexas>

From stv.with at protonmail.com Sun Mar 19 11:28:25 2023
From: stv.with at protonmail.com (stv.with)
Date: Sun, 19 Mar 2023 11:28:25 +0000
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>

References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
Message-ID: <Wylp8fMzC7yH5EIOWP--
J0eXt9161E_F5H-0WLgzEVEK9RMxRbaBMz2Db2la8rBgTd1cnB14BGnH6V1LgcY1LEZGQVerzg
5ZDmV780TntZo=@protonmail.com>

Hi, I found a link for it here:
https://cool386.com/mallory_g368/MalloryG368.html
Steve...

Sent with Proton Mail secure email.

----- Original Message -----

On Sunday, March 19th, 2023 at 6:36 AM, jay miller <jay at kk5im.com>
wrote:

> I recently acquired a pair of complete BC-669-Ds (transmitter/receiver
> units, PE-110-Ds power supplies and PE-108E gasoline generators).
>
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> Mallory Vibropack VPG-369. The pack uses a 12v, 5 pin, synchronous
> vibrator (Mallory G-543-C). The Vibropack supplies B+ to the receiver
> plates when in standby (from the generator battery).
>
> Anyone have any data on either the Vibropack and/or the vibrator itself.
>
> Putting 12vdc into the pack and nothing coming out.. no noise at all
> from the vibrator (tried both of them from the two power units).
>
> Thanks!
>
> --
>
> -----
> Jay H. Miller
> Trinity Graphics Systems
> Crawford, Texas
> www.qrz.com/db/KK5IM
> My YouTube Channel:
> <https://www.youtube.com/@Radiotexas>
>
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From jay at kk5im.com Sun Mar 19 13:10:51 2023

From: jay at kk5im.com (jay miller)
Date: Sun, 19 Mar 2023 08:10:51 -0500
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To: <Wylp8fMzC7yH5EIOWP--
J0eXt9161E_F5H-0WLgzEVEK9RMxRbaBMz2Db2la8rBgTd1cnBl4BGnH6VlLgcY1LEZGQVerzg
5ZDmV780TntZo=@protonmail.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
<Wylp8fMzC7yH5EIOWP--
J0eXt9161E_F5H-0WLgzEVEK9RMxRbaBMz2Db2la8rBgTd1cnBl4BGnH6VlLgcY1LEZGQVerzg
5ZDmV780TntZo=@protonmail.com>
Message-ID: <cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>

I have been in touch with this fellow. He knows a great deal about Vibropacks. Unfortunately he did not have the exact specifications on this model.

On 3/19/23 6:28 AM, stv.with via BoatAnchors wrote:

> Hi, I found a link for it here:

> https://cool386.com/mallory_g368/MalloryG368.html

> Steve...

>

>

>

>

> Sent with Proton Mail secure email.

>

> ----- Original Message -----

> On Sunday, March 19th, 2023 at 6:36 AM, jay miller<jay at kk5im.com>
wrote:

>

>

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>> units, PE-110-Ds power supplies and PE-108E gasoline generators).

>>

>> I have one of the PE-110-D power supplies up and running except for the
>> Mallory Vibropack VPG-369. The pack uses a 12v, 5 pin, synchronous
>> vibrator (Mallory G-543-C). The Vibropack supplies B+ to the receiver
>> plates when in standby (from the generator battery).

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>> Anyone have any data on either the Vibropack and/or the vibrator
itself.

>>

>> Putting 12vdc into the pack and nothing coming out.. no noise at all
>> from the vibrator (tried both of them from the two power units).

>>

>> Thanks!

>>

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>> --
>> -----
>> Jay H. Miller
>> Trinity Graphics Systems
>> Crawford, Texas
>> www.qrz.com/db/KK5IM
>> My YouTube Channel:
>> https://www.youtube.com/@Radiotexas
>> -----
>> BoatAnchors mailing list
>> BoatAnchors at lists.theporch.com
>> https://lists.theporch.com/mailman/listinfo/boatanchors
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> https://lists.theporch.com/mailman/listinfo/boatanchors
```

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```
-----
Jay H. Miller
Trinity Graphics Systems
Crawford, Texas
www.qrz.com/db/KK5IM
My YouTube Channel:
https://www.youtube.com/@Radiotexas
```

From ark at ar88.net Sun Mar 19 15:24:03 2023
From: ark at ar88.net (Al Klase)
Date: Sun, 19 Mar 2023 11:24:03 -0400
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
Message-ID: <006c0aef-c7b0-83a5-c3c8-881bde055a9d@ar88.net>

Jay,

Mallory pin-out info attached.? Read my blurb
<<http://www.skywaves.ar88.net/commrx/Maintenance/Waking%20Up.doc.pdf>>
before digging into the vibrator itself.

73,
Al

On 3/19/2023 6:36 AM, jay miller wrote:

```
> I recently acquired a pair of complete BC-669-Ds (transmitter/receiver
> units, PE-110-Ds power supplies and PE-108E gasoline generators).
>
> I have one of the PE-110-D power supplies up and running except for
```

> the Mallory Vibropack VPG-369. The pack uses a 12v, 5 pin, synchronous
> vibrator (Mallory G-543-C). The Vibropack supplies B+ to the receiver
> plates when in standby (from the generator battery).
>
> Anyone have any data on either the Vibropack and/or the vibrator itself.
>
> Putting 12vdc into the pack and nothing coming out.. no noise at all
> from the vibrator (tried both of them from the two power units).
>
> Thanks!
>

--

ARK Sig Block Al Klase - N3FRQ
Jersey City, NJ
<http://www.skywaves.ar88.net/>

From radios at sbcglobal.net Sun Mar 19 19:28:40 2023
From: radios at sbcglobal.net (Lenox Carruth)
Date: Sun, 19 Mar 2023 14:28:40 -0500
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
Message-ID: <002801d95a99\$039da720\$0ad8f560\$@net>

These guys have solid-state vibrators for a lot of military stuff:

19set at yahoogroups.com

-----Original Message-----

Subject: [BoatAnchors] Mallory Vibropack

I recently acquired a pair of complete BC-669-Ds (transmitter/receiver units, PE-110-Ds power supplies and PE-108E gasoline generators).

I have one of the PE-110-D power supplies up and running except for the Mallory Vibropack VPG-369. The pack uses a 12v, 5 pin, synchronous vibrator (Mallory G-543-C). The Vibropack supplies B+ to the receiver plates when in standby (from the generator battery).

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Thanks!

From stv.with at protonmail.com Sun Mar 19 13:31:21 2023
From: stv.with at protonmail.com (stv.with)
Date: Sun, 19 Mar 2023 13:31:21 +0000
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To: <cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
<Wylp8fMzC7yH5EIOWP--
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5ZDmV780TntZo=@protonmail.com>
<cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>
Message-ID:
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1ljwMMCiL03WU9-wzenGoi-w6tccpDA0vc=@protonmail.com>

Hi, I found the manual. It took a little digging.
<https://radionerds.com/images/3/31/TM-11-310-SCHEM.PDF>
Steve...

Sent with Proton Mail secure email.

----- Original Message -----

On Sunday, March 19th, 2023 at 9:10 AM, jay miller <jay at kk5im.com>
wrote:

> I have been in touch with this fellow. He knows a great deal about
> Vibrapacks. Unfortunately he did not have the exact specifications on
> this model.

>

>

> On 3/19/23 6:28 AM, stv.with via BoatAnchors wrote:

>

> > Hi, I found a link for it here:

> > https://cool386.com/mallory_g368/MalloryG368.html

> > Steve...

> >

> > Sent with Proton Mail secure email.

> >

> > ----- Original Message -----

> > On Sunday, March 19th, 2023 at 6:36 AM, jay millerjay at kk5im.com
wrote:

> >
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receiver
> > > units, PE-110-Ds power supplies and PE-108E gasoline generators).
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> > > Mallory Vibropack VPG-369. The pack uses a 12v, 5 pin, synchronous
> > > vibrator (Mallory G-543-C). The Vibropack supplies B+ to the
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> > > Anyone have any data on either the Vibropack and/or the vibrator
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> > > Putting 12vdc into the pack and nothing coming out.. no noise at all
> > > from the vibrator (tried both of them from the two power units).
> > >
> > > Thanks!
> > >
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> > > -----
> > > Jay H. Miller
> > > Trinity Graphics Systems
> > > Crawford, Texas
> > > www.qrz.com/db/KK5IM
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> > <https://www.youtube.com/@Radiotexas>
> > -----
> > BoatAnchors mailing list

> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From jay at kk5im.com Mon Mar 20 18:42:42 2023
From: jay at kk5im.com (jay miller)
Date: Mon, 20 Mar 2023 13:42:42 -0500
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To:
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References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
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<cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>

<Bs_YHc21Ikdrnqx00cgChrvirbc5tTpculrupTYHFQ8t15VWOGXnWsPKABkaoHEyXFXcaeHx11ljwMMCiL03WU9-wzenGoi-w6tccpDA0vc=@protonmail.com>
Message-ID: <387f5746-2b48-b5b2-48cc-a300c0496f6d@kk5im.com>

Oh that is a good one! Had not seen it before! Thanks!!!!

On 3/19/23 8:31 AM, stv.with via BoatAnchors wrote:
> Hi, I found the manual. It took a little digging.
> <https://radionerds.com/images/3/31/TM-11-310-SCHEM.PDF>
> Steve...
>
>
>
>
>
>
--

Jay H. Miller
Trinity Graphics Systems
Crawford, Texas
www.qrz.com/db/KK5IM
My YouTube Channel:
<https://www.youtube.com/@Radiotexas>

From jay at kk5im.com Mon Mar 20 19:21:22 2023
From: jay at kk5im.com (jay miller)
Date: Mon, 20 Mar 2023 14:21:22 -0500
Subject: [BoatAnchors] Mallory Vibropack Now Working!
In-Reply-To:
<Bs_YHc21Ikdrnqx00cgChrvirbc5tTpculrupTYHFQ8t15VWOGXnWsPKABkaoHEyXFXcaeHx11ljwMMCiL03WU9-wzenGoi-w6tccpDA0vc=@protonmail.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>

<Wylp8fMzC7yH5EIOWP--
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5ZDmV780TntZo=@protonmail.com>
<cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>

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Message-ID: <1de8e7c7-006d-f241-ff9a-6a436bb45f02@kk5im.com>

With a lot of help from Al Klase, I now have the Mallory Vibropack
working per specs!

I finally had to cut the can open and VERY aggressively clean the
contacts. I wound up using a flat needle file as the contacts had "work
hardened" over 80 years. Puts out 335 vdc from 12 volt input (about 1
amp).

Did not have to replace any parts inside the Vibropack supply.

And-- I learned a lot!

Thanks also to those who sent some good links to TMs and drawings!

--

Jay H. Miller KK5IM
Trinity Graphics Systems
Crawford, Texas
www.qrz.com/db/KK5IM
My YouTube Channel:
<https://www.youtube.com/@Radiotexas>

From spr at earthlink.net Mon Mar 20 21:32:26 2023
From: spr at earthlink.net (Scott Robinson)
Date: Mon, 20 Mar 2023 14:32:26 -0700
Subject: [BoatAnchors] Mallory Vibropack Now Working!
In-Reply-To: <1de8e7c7-006d-f241-ff9a-6a436bb45f02@kk5im.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
<Wylp8fMzC7yH5EIOWP--
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<1de8e7c7-006d-f241-ff9a-6a436bb45f02@kk5im.com>
Message-ID: <1ab0247d-73e8-6b4d-9c3a-aa2d2d742bf1@earthlink.net>

Hi Jay,

There is almost certainly a buffer cap across the power transformer secondary, and at least the vibrator manufacturer companies were certain it would need to be replaced when the vibrator was...certain enough that their warranty was *void* if you didn't change out that capacitor. It's probably rated for at least 1500 volts.

FWIW,

Scott

On 3/20/23 12:21 PM, jay miller wrote:

> With a lot of help from Al Klase, I now have the Mallory Vibropack
> working per specs!
>
> I finally had to cut the can open and VERY aggressively clean the
> contacts. I wound up using a flat needle file as the contacts had "work
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> Did not have to replace any parts inside the Vibropack supply.
>
> And-- I learned a lot!
>
> Thanks also to those who sent some good links to TMs and drawings!
>

From ranickels at gmail.com Mon Mar 20 22:48:45 2023

From: ranickels at gmail.com (Robert Nickels)

Date: Mon, 20 Mar 2023 17:48:45 -0500

Subject: [BoatAnchors] Mallory Vibropack

In-Reply-To: <387f5746-2b48-b5b2-48cc-a300c0496f6d@kk5im.com>

References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>

<Wylp8fMzC7yH5EIOWP--

J0eXt9161E_F5H-0WLgzEVEK9RMxRbaBMz2Db2la8rBgTd1cnBl4BGnH6VlLgcY1LEZGQVerzg
5ZDmV780TntZo=@protonmail.com>

<cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>

<Bs_YHc21Ikdrnqx00cgChrVirbc5tTpculrupTYHFQ8t15VWOGXnWsPKABkaoHEyXFXcaeHx1
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<387f5746-2b48-b5b2-48cc-a300c0496f6d@kk5im.com>

Message-ID: <577f18c7-8fb1-bcd7-d4e4-da7c1306da82@gmail.com>

Hi Jay,

If you really want to become an expert on vibrator power supply design,?

Mallory literally "wrote the book" on that - "Fundamental principles of vibrator power supply design".? It covers everything from magnetics through noise suppression and was the "bible" for designers of vibrator supplies.??? You can download the 13MB pdf file from the link here:

http://tubebooks.org/technical_books_online.htm

Mallory sold a lot of Vibrapack power supplies to companies making marine radios and other things that didn't want to build their own as well as lots of vibrators.

73, Bob W9RAN

From jay at kk5im.com Tue Mar 21 01:22:21 2023
From: jay at kk5im.com (jay miller)
Date: Mon, 20 Mar 2023 20:22:21 -0500
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To: <577f18c7-8fb1-bcd7-d4e4-da7c1306da82@gmail.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
<Wylp8fMzC7yH5EIOWP--
J0eXt9161E_F5H-0WLgzEVEK9RMxRbaBMz2Db2la8rBgTd1cnBl4BGnH6VlLgcY1LEZGQVerzg
5ZDmV780TntZo=@protonmail.com>
<cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>

<Bs_YHc21Ikdrnqx00cgChrVirbc5tTpculrupTYHFQ8t15VWOGXnWsPKABkaoHEyXFXcaeHx1
11jwMMCiL03WU9-wzenGoi-w6tccpDA0vc=@protonmail.com>
<387f5746-2b48-b5b2-48cc-a300c0496f6d@kk5im.com>
<577f18c7-8fb1-bcd7-d4e4-da7c1306da82@gmail.com>
Message-ID: <9a58a851-20a1-f787-1e26-8462cb0ac0df@kk5im.com>

Have it! Thanks Bob! Maybe we should put one in the next version of the RAN Exciter!!!

On 3/20/23 5:48 PM, Robert Nickels via BoatAnchors wrote:

> Hi Jay,
>
> If you really want to become an expert on vibrator power supply
> design,? Mallory literally "wrote the book" on that - "Fundamental
> principles of vibrator power supply design".? It covers everything
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> from the link here:
>
> http://tubebooks.org/technical_books_online.htm
>

> Mallory sold a lot of Vibrapack power supplies to companies making
> marine radios and other things that didn't want to build their own as
> well as lots of vibrators.

>

> 73, Bob W9RAN

>

>

>

>

> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

--

Jay H. Miller
Trinity Graphics Systems
Crawford, Texas
www.qrz.com/db/KK5IM
My YouTube Channel:
<https://www.youtube.com/@Radiotexas>

From spr at earthlink.net Tue Mar 21 01:29:14 2023
From: spr at earthlink.net (Scott Robinson)
Date: Mon, 20 Mar 2023 18:29:14 -0700
Subject: [BoatAnchors] Mallory Vibropack
In-Reply-To: <577f18c7-8fb1-bcd7-d4e4-da7c1306da82@gmail.com>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
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<cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>

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<387f5746-2b48-b5b2-48cc-a300c0496f6d@kk5im.com>
<577f18c7-8fb1-bcd7-d4e4-da7c1306da82@gmail.com>
Message-ID: <b5438594-87e5-e4c3-00cc-a8cc207ada90@earthlink.net>

VERY cool site! What a resource.

Thanks,

scott

On 3/20/23 3:48 PM, Robert Nickels via BoatAnchors wrote:

> Hi Jay,

>

> If you really want to become an expert on vibrator power supply design,
 > Mallory literally "wrote the book" on that - "Fundamental principles of
 > vibrator power supply design".? It covers everything from magnetics
 > through noise suppression and was the "bible" for designers of vibrator
 > supplies.??? You can download the 13MB pdf file from the link here:
 >
 > http://tubebooks.org/technical_books_online.htm
 >
 > Mallory sold a lot of Vibrapack power supplies to companies making
 > marine radios and other things that didn't want to build their own as
 > well as lots of vibrators.
 >
 > 73, Bob W9RAN
 >
 >
 >
 >
 > -----
 > BoatAnchors mailing list
 > BoatAnchors at lists.theporch.com
 > <https://lists.theporch.com/mailman/listinfo/boatanchors>

From ranickels at gmail.com Tue Mar 21 02:21:35 2023
 From: ranickels at gmail.com (Robert Nickels)
 Date: Mon, 20 Mar 2023 21:21:35 -0500
 Subject: [BoatAnchors] Mallory Vibropack
 In-Reply-To: <9a58a851-20a1-f787-1e26-8462cb0ac0df@kk5im.com>
 References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
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 <577f18c7-8fb1-bcd7-d4e4-da7c1306da82@gmail.com>
 <9a58a851-20a1-f787-1e26-8462cb0ac0df@kk5im.com>
 Message-ID: <5e1d0e67-5c78-9b98-d130-ee8d85da6596@gmail.com>

One final comment - I read the Mallory book after my attempts to make my own DC-DC converter power supplies using ordinary filament transformers and a couple of FETs as substitutes for the mechanical vibrator which proved the simple view of things is not always correct.?? I soon learned that a lot of good engineering had gone into the design of the transformers used in car radios and such, as described in detail in chapter VI.?? One example is the fact that the vibrating element in a mechanical vibrator has mass and inertia and a certain amount of time is required for them to accelerate to operating frequency which creates

imbalance. The waveform produced by rapidly opening and closing contacts of the vibrator look more like a square wave, which affects flux density and the resulting choice of materials used to make the transformer.???? All in all the vibrator power transformer has to be designed for conditions that no transformer that is fed a nice steady? sine wave will never encounter.

Through today's lens,? electromechanical solutions tend to look archaic and limited, but at the time they were the best available and companies like Mallory invested a lot of R&D into helping customers design power systems with them that were as optimized as could be.

And I should add, using FETs to replace the vibrator works fine - provided they are used to drive a vibrator power transformer. They're more efficient and obviously don't have the same failure modes, but the reason it works is because the magnetics were properly designed.

73, Bob W9RAN

From navy.radio at gmail.com Sat Mar 25 00:55:39 2023
From: navy.radio at gmail.com (Nick England)
Date: Fri, 24 Mar 2023 20:55:39 -0400
Subject: [BoatAnchors] Charlotte Antique Wireless Assoc meet fleamarket photos
Message-ID:
<CAB55hNdFkmgieEZnu5EdHrsG7mggwPUBLdqVQc_1VBwxRK4C0g@mail.gmail.com>

Charlotte Antique Wireless Assoc meet fleamarket photos 3/24/23
Interesting vintage stuff with a few military and ham items
<https://photos.app.goo.gl/HwxSPa3U5ayio87EA>

Nick

From kd5byb at kd5byb.net Sat Mar 25 21:42:27 2023
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sat, 25 Mar 2023 16:42:27 -0500
Subject: [BoatAnchors] Charlotte Antique Wireless Assoc meet fleamarket photos
In-Reply-To:
<CAB55hNdFkmgieEZnu5EdHrsG7mggwPUBLdqVQc_1VBwxRK4C0g@mail.gmail.com>
References:
<CAB55hNdFkmgieEZnu5EdHrsG7mggwPUBLdqVQc_1VBwxRK4C0g@mail.gmail.com>
Message-ID: <46cc90cb-dde7-d3e7-7336-ea5553c47599@kd5byb.net>

Great photos Nick!

I've have broken my arm getting my wallet out to buy that Mackay Marine RC-123 for \$40 and the BC-348P for \$30! :)

thanks much and 73,
ben, kd5byb

From wa5cab at cs.com Thu Mar 30 15:49:54 2023
From: wa5cab at cs.com (Robert Downs)
Date: Thu, 30 Mar 2023 10:49:54 -0500
Subject: [BoatAnchors] Mallory Vibropack Now Working!
In-Reply-To: <1ab0247d-73e8-6b4d-9c3a-aa2d2d742bf1@earthlink.net>
References: <6780991f-2b82-1ff6-00c1-e905d343312c@kk5im.com>
<Wylp8fMzC7yH5EIOWP--
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5ZDmV780TntZo=@protonmail.com>
<cef5554b-4c41-3f5e-52b4-be6ca9836dc9@kk5im.com>

<Bs_YHc21Ikdrnqx00cgChrVirbc5tTpculrupTYHFQ8t15VWOGXnWsPKABkaoHEyXFXcaeHx1
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<1de8e7c7-006d-f241-ff9a-6a436bb45f02@kk5im.com>
<1ab0247d-73e8-6b4d-9c3a-aa2d2d742bf1@earthlink.net>
Message-ID: <002401d9631f\$46ad2a70\$d4077f50\$@com>

1600 VDC I think.

It is too late to find out but I wonder whether or not the vibrator contacts could have been cleared using the tester that I have used for decades that has almost never failed. Uses several 25 or 40 watt incandescent lamps and the 120 vac line. It sometimes has to run for several hours (like overnight). Slow but it does not require cutting into the can.

Robert Downs

-----Original Message-----

From: BoatAnchors [mailto:boatanchors-bounces at lists.theporch.com] On Behalf Of Scott Robinson via BoatAnchors
Sent: Monday, March 20, 2023 16:32
To: Ham radios with tubes; jay miller
Cc: Scott Robinson
Subject: Re: [BoatAnchors] Mallory Vibropack Now Working!

Hi Jay,

There is almost certainly a buffer cap across the power transformer secondary, and at least the vibrator manufacturer companies were certain

it would need to be replaced when the vibrator was...certain enough that their warranty was *void* if you didn't change out that capacitor. It's probably rated for at least 1500 volts.

FWIW,

Scott

On 3/20/23 12:21 PM, jay miller wrote:

> With a lot of help from Al Klase, I now have the Mallory Vibropack
> working per specs!
>
> I finally had to cut the can open and VERY aggressively clean the
> contacts. I wound up using a flat needle file as the contacts had "work
> hardened" over 80 years. Puts out 335 vdc from 12 volt input (about 1
amp).
>
> Did not have to replace any parts inside the Vibropack supply.
>
> And-- I learned a lot!
>
> Thanks also to those who sent some good links to TMs and drawings!
>

BoatAnchors mailing list

BoatAnchors at lists.theporch.com

<https://lists.theporch.com/mailman/listinfo/boatanchors>